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**STATE OF SOUTH AUSTRALIA.**

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**Report on the Factories and Works Statistics for the Year  
1936-37 and Summary Returns**

BY

**A. W. BOWDEN, A.I.A. Government Statist, &c.**

**(BULLETIN No. 8 of 1938.)**

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STATE OF SOUTH AUSTRALIA.—REPORT BY THE  
GOVERNMENT STATIST ON THE FACTORIES AND  
WORKS FOR THE YEAR ENDED 30TH JUNE, 1937.

SINCE 1931-32, the year of lowest levels, there has been a steady annual improvement in the Secondary Industries of the State, and the year 1936-37 continued to show such substantial progress that, in general, the present position is at least equal to pre-depression years.

An analysis of 107 industrial groups shows increased productivity for 1936-37, as compared with 1935-36 in 70 groups, whilst the remaining 37, with a few exceptions, showed only slight decreases.

*Establishments and Hands.*—1,916 establishments were in operation during the year, an increase of 21. The average number of persons employed for the whole year was 40,710, an increase of 2,239, or 5·82 per cent. The average number of employees, 40,710, just failed to reach the number recorded in the maximum year of factory employment, 1926-27, viz., 41,075. However, the number of female employees constituted a record. Included in the hands employed are 1,474 working proprietors.

*Salaries and Wages.*—The salaries and wages earned for the year totalled £7,518,239, an increase of £824,088, or 12·31 per cent. The salaries and wages of the working proprietors included amounted to £345,601. The average earned per employee was £10 13s. 6d. more than the previous year, the totals being, £184 13s. 7d. (£174 0s. 1d.)

*Materials, &c., Used.*—The material used or treated was valued at £21,399,805, an increase of £2,138,055; in addition, fuel, light, water, and lubricating oils used, £856,808, a decrease of £115,828.

*The Output* for the year was valued at £34,528,176, an increase of £2,624,085, or 8·22 per cent.

*The Production Value*, that is, the value added to material by the process of manufacture or treatment, was estimated at £12,271,563, an increase of £601,858, or 5·16 per cent.

*Margin.*—After accounting for the expenditure items—Salaries and wages, fuel and light, and materials used aggregating £29,774,852, the margin left to meet all miscellaneous expenses and profit was £4,753,324, a decrease of £222,230, or 4·47 per cent.

A. W. BOWDEN, Government Statist, &c.

Statistical Office, Adelaide, 12th May, 1938.

1. ESTABLISHMENTS, HANDS, POWER.

| Item.  | 1934-35.     | 1935-36.     | 1936-37.     | Increase<br>on<br>1935-36. |
|--|--------------|--------------|--------------|----------------------------|
| Establishments.....                              | No.<br>1,803 | No.<br>1,895 | No.<br>1,916 | No.<br>21                  |
| Employees (including Working<br>Proprietors)—    |              |              |              |                            |
| Males .....                                      | 27,271       | 31,391       | 33,400       | 2,009                      |
| Females .....                                    | 6,226        | 7,080        | 7,310        | 230                        |
| Total .....                                      | 33,497       | 38,471       | 40,710       | 2,239                      |
| Working Proprietors—                             |              |              |              |                            |
| Males .....                                      | 1,321        | 1,382        | 1,405        | 23                         |
| Females .....                                    | 72           | 79           | 69           | -10                        |
| Total .....                                      | 1,393        | 1,461        | 1,474        | 13                         |
| Horsepower—                                      |              |              |              |                            |
| Establishments using power ..                    | 1,635        | 1,711        | 1,731        | 20                         |
| Rated horsepower of engines (in<br>use or idle)— | H.P.         | H.P.         | H.P.         | H.P.                       |
| 1. Steam .....                                   | 144,778      | 147,696      | 146,379      | -1,317                     |
| 2. Electric .....                                | 76,676       | 80,206       | 85,706       | 5,500                      |
| 3. Oil .....                                     | 13,424       | 16,980       | 17,671       | 691                        |
| 4. Gas .....                                     | 6,668        | 6,501        | 6,367        | -134                       |
| Total .....                                      | 244,546      | 251,383      | 256,123      | 4,740                      |

2. CHIEF EXPENDITURE ITEMS.

| Item.   | 1934-35.        | 1935-36.        | 1936-37.        | Increase<br>on<br>1935-36. |
|---|-----------------|-----------------|-----------------|----------------------------|
| 1. Materials—                                       | £               | £               | £               | £                          |
| Raw materials .....                                 | 14,380,415      | 18,256,167      | 20,212,171      | 1,956,004                  |
| Containers, &c. ....                                | 502,060         | 543,268         | 612,804         | 69,536                     |
| Tools replaced, repairs,<br>etc. ....               | 393,017         | 462,315         | 574,830         | 112,515                    |
| Total .....   | 15,275,492      | 19,261,750      | 21,399,805      | 2,138,055                  |
| 2. Fuel, light, water, &c. ...                      | 866,567<br>Tons | 972,636<br>Tons | 856,808<br>Tons | -115,828<br>Tons           |
| Coal (a) .....                                      | 240,962         | 259,833         | 282,655         | 22,822                     |
| Coke (a) .....                                      | 80,550          | 85,666          | 88,269          | 2,603                      |
| Wood .....  | 74,562          | 81,473          | 88,247          | 6,774                      |
| £   | £               | £               | £               | £                          |
| Fuel oils (a) .....                                 | 102,006         | 104,181         | 98,007          | -6,174                     |
| Gas .....   | 27,513          | 30,267          | 22,121          | -8,146                     |
| Electricity .....                                   | 267,010         | 296,419         | 290,541         | -5,878                     |
| Lubricating oils (a) ....                           | 24,454          | 26,172          | 29,560          | 3,388                      |
| Water .....   | 36,939          | 37,808          | 43,328          | 5,520                      |
| 3. Salaries and wages (b)—                          |                 |                 |                 |                            |
| Males .....   | 5,228,280       | 6,119,210       | 6,905,161       | 785,951                    |
| Females .....                                       | 505,585         | 574,941         | 613,078         | 38,137                     |
| Total .....   | 5,733,865       | 6,694,151       | 7,518,239       | 824,088                    |
| Salaries of W.P. included<br>above .....            | 300,334         | 318,797         | 345,601         | 26,804                     |
| 4. Margin for overhead<br>expenses and profit ..... | 3,823,248       | 4,975,554       | 4,753,324       | -222,230                   |

(a) Including those portions classified as materials used.

(b) Including salaries and wages earned by working proprietors.

3. SALARIES AND WAGES EARNED PER EMPLOYEE DURING YEAR.\*

| Item.         | 1934-35. | 1935-36. | 1936-37.  | Increase<br>on<br>1935-36. |
|---------------|----------|----------|-----------|----------------------------|
|               | £ s. d.  | £ s. d.  | £ s. d.   | £ s. d.                    |
| Males .....   | 191 14 4 | 194 18 9 | 206 14 10 | 11 16 1                    |
| Females ..... | 81 4 1   | 81 4 2   | 83 17 5   | 2 13 3                     |
| Total .....   | 171 3 6  | 174 0 1  | 184 13 7  | 10 13 6                    |

\* Salaries and wages of working proprietors included in all averages.

4. VALUE OF FACTORY PREMISES AND PLANT.

|                        | 1934-35.   | 1935-36.   | 1936-37.   | Decrease<br>on<br>1935-36. |
|------------------------|------------|------------|------------|----------------------------|
|                        | £          | £          | £          | £                          |
| Plant and machinery .. | 9,293,448  | 9,280,335  | 9,130,748  | 149,587                    |
| Land and buildings ... | 7,947,825  | 8,268,807  | 8,133,147  | 135,660                    |
| Total .....            | 17,241,273 | 17,549,142 | 17,263,895 | 285,247                    |

5. VALUE OF OUTPUT AND PRODUCTION.

| Item.   | 1934-35.            | 1935-36.           | 1936-37.            | Increase<br>on<br>1935-36. |
|---|---------------------|--------------------|---------------------|----------------------------|
|   | £                   | £                  | £                   | £                          |
| Output .....  | 25,699,172          | 31,904,091         | 34,528,176          | 2,624,085                  |
| Per inhabitant .....  | £ s. d.<br>43 19 10 | £ s. d.<br>54 8 6  | £ s. d.<br>58 13 10 | £ s. d.<br>4 5 4           |
| Value of production (the value added to material by process of treatment. |                     |                    |                     |                            |
|   | £                   | £                  | £                   | £                          |
| Production value .....  | 9,557,113           | 11,669,705         | 12,271,563          | 601,858                    |
| Per inhabitant .....  | £ s. d.<br>16 7 2   | £ s. d.<br>19 18 2 | £ s. d.<br>20 17 2  | £ s. d.<br>0 19 0          |
| %   | %                   | %                  | %                   | %                          |
| Proportion represented<br>by salaries and wages                           | 60·00               | 57·36              | 61·27               | 3·91                       |

## 6. FACTORIES AND WORKS IN CLASS GROUPS, 1936-37.

| Class of Industry.                                      | Estab-<br>lish-<br>ments. | Employees,<br>including<br>W.P.<br>(average for<br>Whole Year.) |       | Salaries<br>and<br>Wages<br>(Inc. W.P.)<br>Paid. | Cost of<br>Fuel,<br>Light,<br>Lubri-<br>cating<br>Oil, and<br>Water. | Cost of<br>Material<br>Used,<br>Tools<br>Replaced,<br>Repairs,<br>&c. | Value<br>of<br>Output. | Value of<br>Production<br>(Added<br>Value.) | Value of<br>Land,<br>Buildings,<br>Plant,<br>Machinery. |
|---|---------------------------|---|-------|--|--|---|------------------------|---|---|
|   |                           | M.  | F.    | £  | £  | £   | £                      | £   | £   |
| i. Treatment of non-metalli-<br>ferous metals, &c. .... | 42                        | 542   | 7     | 114,117  | 49,150   | 123,633   | 380,564                | 207,781                                     | 385,908   |
| ii. Bricks, Pottery, &c. ....                           | 43                        | 900   | 30    | 168,939  | 55,368   | 158,572   | 558,517                | 344,577                                     | 344,120   |
| iii. Chemicals, dyes, &c. ....                          | 52                        | 1,190   | 252   | 263,255  | 43,951   | 1,214,066   | 1,896,325              | 638,308                                     | 1,239,052   |
| iv. Industrial metals, machines,<br>vehicles, &c. ....  | 474                       | 17,341  | 806   | 3,701,830  | 229,284  | 9,654,801   | 14,707,266             | 4,823,181                                   | 4,314,415   |
| v. Precious metals, jewellery,<br>etc. ....             | 18                        | 162   | 14    | 28,995   | 1,807  | 18,980  | 61,449                 | 40,662                                      | 43,951  |
| vi. Textile and textile goods ..                        | 32                        | 761   | 424   | 152,100  | 22,681   | 864,391   | 1,130,245              | 243,173                                     | 377,567   |
| vii. Skins and leather ....                             | 24                        | 214   | 187   | 55,225   | 1,571  | 119,260   | 197,917                | 77,086                                      | 58,181  |
| viii. Clothing ....                                     | 283                       | 980   | 3,472 | 454,459  | 13,295   | 483,218   | 1,107,635              | 611,122                                     | 630,404   |
| ix. Food, drinks, &c. ....                              | 522                       | 4,713   | 1,070 | 1,065,343  | 187,830  | 6,869,274   | 9,442,483              | 2,385,379                                   | 4,130,713   |
| x. Woodworking, &c. ....                                | 147                       | 1,762   | 65    | 317,090  | 15,013   | 924,295   | 1,437,727              | 498,419                                     | 506,313   |
| xi. Furniture, bedding. ....                            | 79                        | 937   | 108   | 169,561  | 8,434  | 278,438   | 526,388                | 239,516                                     | 232,385   |
| xii. Paper, stationery, &c. ....                        | 115                       | 1,558   | 631   | 433,355  | 16,774   | 444,357   | 1,126,434              | 665,303                                     | 1,203,039   |
| xiii. Rubber. ....                                      | 27                        | 130   | 15    | 20,485   | 2,276  | 33,130  | 68,914                 | 33,508                                      | 73,582  |
| xiv. Musical Instruments ....                           | 3                         | 12  | —     | 3,231  | 24   | 3,402   | 8,104                  | 4,678                                       | 3,014   |
| xv. Miscellaneous ....                                  | 15                        | 217   | 92    | 42,060   | 1,812  | 61,774  | 149,466                | 85,880                                      | 76,347  |
| xvi. Heat, light, and power ....                        | 40                        | 1,981   | 137   | 528,194  | 207,538  | 148,214   | 1,728,742              | 1,372,990                                   | 3,644,904   |
| Total 1936-37 ....                                      | 1,916                     | 33,400  | 7,310 | 7,518,239  | 856,808  | 21,399,805  | 34,528,176             | 12,271,563                                  | 17,263,895  |
| Total 1935-36 ....                                      | 1,895                     | 31,391  | 7,080 | 6,694,151  | 972,636  | 19,261,750  | 31,904,091             | 11,669,705                                  | 17,549,142  |
| Increase .....  | 21                        | 2,009   | 230   | 824,088  | —115,828   | 2,138,055   | 2,624,085              | 601,858                                     | —285,247  |

## 7. QUANTITIES OF COMMODITIES PRODUCED.

Where the nature of the industry makes it possible, the quantities as well as the values of commodities are collected. The following are the chief items of those collected :—

| Description.                    | Unit.             | Quantities Produced. |             |             |
|---------------------------------|-------------------|----------------------|-------------|-------------|
|                                 |                   | 1934-35.             | 1935-36.    | 1936-37.    |
| Aerated Waters ..               | doz.              | 825,695              | 980,632     | 1,016,380   |
| Bacon and Ham ..                | lb.               | 5,936,357            | 6,274,041   | 7,140,112   |
| Bark (ground) ....              | ton               | 4,076                | 4,103       | 4,065       |
| Beer and Stout ...              | gall.             | 4,600,487            | 5,182,628   | 5,668,392   |
| Biscuits .....                  | lb.               | 2,706,408            | 2,801,339   | 2,859,078   |
| Boots and Shoes .               | pair              | 468,319              | 541,255     | 522,253     |
| Bran .....                      | ton               | 33,976               | 30,290      | 25,175      |
| Bricks .....                    | No.               | 30,243,214           | 39,699,943  | 41,493,651  |
| Butter .....                    | lb.               | 14,157,280           | 17,017,490  | 16,657,761  |
| Cheese .....                    | lb.               | 6,648,281            | 8,103,243   | 11,847,355  |
| Electricity .....               | B.U.              | 176,433,857          | 200,488,220 | 223,925,107 |
| Fertilisers<br>(Chemical) ..... | ton               | 158,633              | 212,645     | 233,455     |
| Flour .....                     | ton               | 136,716              | 124,021     | 119,192     |
| Gas .....                       | 1,000<br>cub. ft. | 1,082,217            | 1,090,249   | 1,119,278   |
| Ice .....                       | ton               | 25,503               | 30,237      | 30,467      |
| Jams and Jellies ..             | lb.               | 6,332,139            | 7,281,591   | 7,568,150   |
| Lard .....                      | lb.               | 218,032              | 212,901     | 257,645     |
| Lime .....                      | ton               | 3,306                | 3,484       | 4,984       |
| Malt .....                      | bush.             | 290,927              | 315,557     | 277,623     |
| Motor Bodies .....              | No.               | 24,329               | 40,404      | 40,005      |
| Pickles .....                   | pint              | 990,412              | 1,309,453   | 1,353,823   |
| Pollard .....                   | ton               | 23,775               | 21,179      | 21,788      |

## 7. QUANTITIES OF COMMODITIES PRODUCED—continued.

| Description.           | Unit.     | Quantities Produced. |            |            |
|------------------------|-----------|----------------------|------------|------------|
|                        |           | 1934-35.             | 1935-36.   | 1936-37.   |
| Preserved Fruits .     | lb.       | 4,033,106            | 5,839,002  | 4,379,963  |
| Sauces .....           | pint      | 2,020,444            | 2,175,603  | 2,238,593  |
| Soap .....             | cwt.      | 80,244               | 69,936     | 75,784     |
| Spirits (Distilled) .. | pf. gall. | 1,593,155            | 2,048,599  | 1,983,909  |
| Sugar (Refined) ..     | ton       | 28,426               | 29,791     | 29,667     |
| Tiles .....            | No.       | 787,516              | 808,648    | 1,033,145  |
| Wine .....             | gall.     | 12,914,905           | 13,023,587 | 15,062,502 |
| Vinegar .....          | gall.     | 140,703              | 155,149    | 241,427    |

## 8. QUARTERLY INDEX FIGURES OF MID-MONTHLY EMPLOYMENT IN FACTORIES.

Index Figures (Mean 1929-30 = 100.)

| Year.         | Quarters. |      |        |       |
|---------------|-----------|------|--------|-------|
|               | Sept.     | Dec. | March. | June. |
| 1929-30 ..... | 103       | 103  | 101    | 94    |
| 1930-31 ..... | 81        | 74   | 71     | 70    |
| 1931-32 ..... | 67        | 70   | 73     | 75    |
| 1932-33 ..... | 74        | 79   | 82     | 83    |
| 1933-34 ..... | 85        | 89   | 93     | 97    |
| 1934-35 ..... | 98        | 101  | 104    | 112   |
| 1935-36 ..... | 111       | 114  | 119    | 121   |
| 1936-37 ..... | 120       | 123  | 129    | 136   |

NOTE.—Factory years 1926-27 (Maximum) = 128 ; Mean 5 years ended 1928-29 = 122 ; 1929-30 (Base) = 100 ; 1930-31 = 74 ; 1931-32 = 71 ; 1932-33 = 80 ; 1933-34 = 91 ; 1934-35 = 104 ; 1935-36 = 116 ; 1936-37 = 127.

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Statistical Office, Adelaide, 12th May, 1938.